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$$- \exp \left( - \frac{24}{3.3} \right) \quad 3.3 \text{ We have } d u_x \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) + \left( - \frac{b}{2} - \frac{g}{2} \right) \left( \frac{1}{2} \right) = dx \quad j k$$

The proposed solution is  $u_x = A j k x + B j k x$

$$1 \left( \frac{1}{2} \right) = \exp \left( - \frac{1}{2} \right) + \exp \left( - \frac{1}{2} \right) \quad \left( \frac{1}{2} + \frac{1}{2} \right)$$

The first derivative is  $d u_x \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) = \left( - \frac{1}{2} \right) \exp \left( - \frac{1}{2} \right) - dx - j \left( \frac{1}{2} + k \right) B \exp \left( - \frac{1}{2} \right) + k x$  and the second derivative becomes  $d u_x \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) = \left( - \frac{1}{2} \right) \exp \left( - \frac{1}{2} \right) + j \left( \frac{1}{2} + k \right) B \exp \left( - \frac{1}{2} \right) + k x$

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corner atoms  $\times \frac{1}{8} = 1$  atom 6  
face atoms  $\times \frac{1}{2} = 3$  atoms Total  
of 4 atoms per unit cell (b) bcc: 8  
corner atoms  $\times \frac{1}{8} = 1$  atom 1  
enclosed atom = 1 atom Total of 2  
atoms per unit cell (c) Diamond: 8  
corner atoms  $\times \frac{1}{8} = 1$  atom 6  
face atoms  $\times \frac{1}{2} = 3$  atoms 4  
enclosed atoms = 4 atoms Total of  
8

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